## Amendments to the Claims

Please cancel Claim 11. Please amend Claims 1-2, 10, 12, 17 and 20-22. Please add new Claims 23-32. The Claim Listing below will replace all prior versions of the claims in the application:

## **Claim Listing**

- 1. (currently amended) A method for promoting cardiac tissue repair comprising administering to the cardiac tissue a therapeutically effective amount of an angiogenic thrombin derivative peptide, wherein said peptide has angiogenic activity and comprises a thrombin receptor binding domain and a serine esterase conserved sequence.
- (currently amended) The method according to Claim 1 wherein said peptide comprises a
  thrombin receptor binding domain having the sequence Arg-Gly-Asp-Ala (SEQ ID
  NO. 1); and a serine esterase conserved sequence.
- 3. (original) The method of Claim 2 wherein the serine esterase conserved sequence comprises Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 2).
- 4. (original) The method of Claim 2 wherein the thrombin derivative peptide comprises the amino acid sequence: Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gl y-Gly-Pro-Phe-Val (SEQ ID NO. 3).
- 5. (original) The method of Claim 1 wherein the thrombin derivative peptide consists of the amino acid sequence Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 4).
- 6. (original) The method of Claim 1 wherein the peptide is administered during or following cardiac surgery.

- 7. (original) The method of Claim 2 wherein the peptide is administered by injection into the cardiac tissue.
- 8. (original) The method of Claim 2 wherein a sustained release formulation comprising the angiogenic thrombin derivative peptide is administered to the cardiac tissue.
- 9. (original) The method of Claim 8 wherein the sustained release formulation is a polylactic acid/polyglycolic acid microparticles comprising the angiogenic thrombin derivative peptide.
- 10. (currently amended) A method of stimulating revascularization of cardiac tissue comprising administering to cardiac tissue a therapeutically effective amount of an angiogenic thrombin derivative peptide, wherein said peptide has angiogenic activity and comprises a thrombin receptor binding domain and a serine esterase conserved sequence.
- 11. (cancelled)
- 12. (currently amended) A method of inhibiting restenosis in a patient following balloon angioplasty, said method comprising administering to the patient a therapeutically effective amount of an angiogenic thrombin derivative peptide, wherein said peptide has angiogenic activity and comprises a thrombin receptor binding domain and a serine esterase conserved sequence.
- 13. (original) The method of Claim 12 wherein the peptide is coated onto a balloon angioplasty catheter.
- 14. (original) The method of Claim 12 wherein the angiogenic thrombin derivative peptide is administered systemically.

- 15. (original) The method of Claim 12 wherein the angiogenic thrombin derivative peptide is administered locally to a balloon induced damaged area of a blood vessel.
- 16. (original) The method of Claim 12 wherein a stent coated with the angiogenic thrombin derivative peptide is inserted into a blood vessel at a balloon induced damaged area.
- 17. (currently amended) The method of Claim 12 wherein said peptide comprises a thrombin receptor binding domain having the sequence Arg-Gly-Asp-Ala (SEQ ID NO. 1); and a serine esterase conserved sequence.
- 18. (original) The method of Claim 17 wherein the serine esterase conserved sequence comprises Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 2).
- 19. (original) The method of Claim 17 wherein the thrombin derivative peptide comprises the amino acid sequence: Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 3).
- 20. (currently amended) The method of Claim 12 wherein the thrombin derivative peptide consists of the amino acid sequence Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val Asp-X<sub>1</sub>-Cys-X<sub>2</sub>-Gly-Asp-Ser-Gly-Gly-Pro-X<sub>3</sub>-Val (SEQ ID NO. 4), wherein X<sub>1</sub> is either Ala or Ser; X<sub>2</sub> is either Glu or Gln; and X<sub>3</sub> is either Phe, Met, Leu, His, or Val.
- 21. (currently amended) A stent coated with an angiogenic thrombin derivative peptide, wherein said peptide has angiogenic activity and comprises a thrombin receptor binding domain and a serine esterase conserved sequence.
- 22. (currently amended) A method of inhibiting vascular occlusion in a patient, said method comprising administering to the patient a therapeutically effective amount of an

<u>angiogenic</u> thrombin derivative peptide, <u>wherein said peptide has angiogenic activity and comprises a thrombin receptor binding domain and a serine esterase conserved sequence</u>.

- 23. (new) The method of Claim 1, wherein the angiogenic thrombin derivative peptide comprises a C-terminal amide.
- 24. (new) The method of Claim 10, wherein the angiogenic thrombin derivative peptide comprises a C-terminal amide.
- 25. (new) The method of Claim 12, wherein the angiogenic thrombin derivative peptide comprises a C-terminal amide.
- 26. (new) The method of Claim 22, wherein the angiogenic thrombin derivative peptide comprises a C-terminal amide.
- 27. (new) The stent of Claim 21, wherein the angiogenic thrombin derivative peptide comprises a C-terminal amide.
- 28. (new) A method for promoting cardiac tissue repair comprising administering to the cardiac tissue a therapeutically effective amount of a C-terminus amidated peptide comprising the sequence Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 3).
- 29. (new) A method of stimulating revascularization of cardiac tissue comprising administering to cardiac tissue a therapeutically effective amount of a C-terminus amidated peptide comprising the sequence Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 3).
- 30. (new) A method of inhibiting restenosis in a patient following balloon angioplasty, said method comprising administering to the patient a therapeutically effective amount of a C-

terminus amidated peptide comprising the sequence Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 3).

- 31. (new) A stent coated with a C-terminus amidated peptide comprising the sequence Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 3).
- 32. (new) A method of inhibiting vascular occlusion in a patient, said method comprising administering to the patient a therapeutically effective amount of a C-terminus amidated peptide comprising the sequence Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val (SEQ ID NO. 3).